National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SAI INDUSTRIAL & METALLURGICAL LABS, 5-7-9/6A, SANGEETH NAGAR, KUKATPALLY, HYDERABAD, MEDCHAL MALKAJGIRI, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6515 **Page No** 1 of 6

Validity 26/12/2022 to 25/12/2024 **Last Amended on** 14/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	BS EN 15079
2	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloys	Chromium	ASTM E 1251
3	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloys	Copper	ASTM E 1251
4	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloys	Iron	ASTM E 1251
5	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloys	lead	ASTM E 1251
6	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloys	Magnesium	ASTM E 1251
7	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloys	Manganese	ASTM E 1251
8	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloys	Silicon	ASTM E 1251
9	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloys	Tin	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloys	Titanium	ASTM E 1251
11	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloys	Zinc	ASTM E 1251
12	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Carbon	ASTM E 1086
13	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Carbon	IS 9879
14	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Chromium	ASTM E 1086
15	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Chromium	IS 9879
16	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Copper	ASTM E 1086
17	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Copper	IS 9879
18	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Manganese	ASTM E 1086

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19	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Manganese	IS 9879
20	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Molybdenum	ASTM E 1086
21	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Molybdenum	IS 9879
22	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Nickle	ASTM E 1086
23	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Nickle	IS 9879
24	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Phosphorus	ASTM E 1086
25	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Phosphorus	IS 9879
26	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Silicon	ASTM E 1086
27	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Silicon	IS 9879
28	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Sulphur	ASTM E 1086
29	CHEMICAL- METALS & ALLOYS	Austenitic Stainless Steel	Sulphur	IS 9879
30	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E 1999-
31	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E 1999-
32	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E 1999-
33	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E 1999-
34	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E 1999-
35	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	BS EN 15079
36	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BS EN 15079
37	CHEMICAL- METALS & ALLOYS	Copper & its alloys	lead	BS EN 15079

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38	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	BS EN 15079
39	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	BS EN 15079
40	CHEMICAL- METALS & ALLOYS	copper and copper alloys	Tin	BS EN 15079
41	CHEMICAL- METALS & ALLOYS	copper and copper alloys	Zinc	BS EN 15079
42	CHEMICAL- METALS & ALLOYS	low alloy steel	Aluminium	IS 8811
43	CHEMICAL- METALS & ALLOYS	Low alloy steel	Carbon	IS 8811
44	CHEMICAL- METALS & ALLOYS	Low alloy steel	Chromium	IS 8811
45	CHEMICAL- METALS & ALLOYS	Low alloy steel	Copper	IS 8811
46	CHEMICAL- METALS & ALLOYS	low alloy steel	Manganese	IS 8811
47	CHEMICAL- METALS & ALLOYS	Low alloy steel	Molybdenum	IS 8811
48	CHEMICAL- METALS & ALLOYS	Low alloy steel	Nickle	IS 8811
49	CHEMICAL- METALS & ALLOYS	Low alloy steel	Silicon	IS 8811
50	CHEMICAL- METALS & ALLOYS	Low alloy steel	Sulphur	IS 8811
51	CHEMICAL- METALS & ALLOYS	Low alloy steel	Vanadium	IS 8811
52	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Aluminium	ASTM E 415
53	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Carbon	ASTM E 415
54	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Chromium	ASTM E 415
55	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Copper	ASTM E 415
56	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Manganese	ASTM E 415

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57	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Molybdenum	ASTM E 415
58	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Nickle	ASTM E 415
59	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Phosphorus	ASTM E 415
60	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Silicon	ASTM E 415
61	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Sulphur	ASTM E 415
62	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Vanadium	ASTM E 415
63	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	% of Elongation	ASME SA 370 (Part-A) Sec (II)
64	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Strength	ASME SA 370 (Part-A) Sec (II)
65	MECHANICAL- MECHANICAL PROPERTIES OF METALS	carbon and alloy steel tubing	Flattening Test	ASTM A 513/A 513 M
66	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel+ Stainless Steel, Carbon Steel + Aluminum Alloy, Carbon Steel + Cupper Alloys, Carbon Steel + Nickel Alloy. Thickness up to 25 mm	Bend Test	ASME Sec.II Part-A SA 263 , SA 264, SA 265 , SB 432
67	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel+ Stainless Steel, Carbon Steel + Aluminum Alloy, Carbon Steel + Cupper Alloys, Carbon Steel + Nickel Alloy. Thickness up to 25 mm	Bend test	ASME Sec.II Part-A SA 263 2019, SA 264 2019, SA 265 2019, SB 432 2019:
68	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel+ Stainless Steel, Carbon Steel + Aluminum Alloy, Carbon Steel + Cupper Alloys, Carbon Steel + Nickel Alloy. Thickness up to 25 mm	Bend test	ASTM A 370
69	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel+ Stainless Steel, Carbon Steel + Aluminum Alloy, Carbon Steel + Cupper Alloys, Carbon Steel + Nickel Alloy. Thickness up to 25 mm	Shear Test (Grip Size : Round 10mm to 25 mm Grip Size: Flat 2 mm to 40 mm)	ASME Sec.II Part-A SA 263 2019, SA 264 2019, SA 265 2019, SB 432
70	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel+ Stainless Steel, Carbon Steel + Aluminum Alloy, Carbon Steel + Cupper Alloys, Carbon Steel + Nickel Alloy. Thickness up to 25 mm	Shear Test (Grip Size : Round 10mm to 25 mm Grip Size: Flat 2 mm to 40 mm)	ASTM A 370
71	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel+ Stainless Steel, Carbon Steel + Aluminum Alloy, Carbon Steel + Cupper Alloys, Carbon Steel + Nickel Alloy. Thickness up to 25 mm	Shear Test (Grip Size : Round 10mm to 25 mm Grip Size: Flat 2 mm to 40 mm)	ASME Sec.II Part-A SA 263 , SA 264 , SA 265, SB 432

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72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel+ Stainless Steel, Carbon Steel + Aluminum Alloy, Carbon Steel + Cupper Alloys, Carbon Steel + Nickel Alloy. Thickness up to 25 mm	Tensile Strength, (Grip Size : Round 10mm to 25 mm Grip Size: Flat 2 mm to 40 mm)	ASME Sec.II Part-A SA 263, SA 264 , SA 265
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel+ Stainless Steel, Carbon Steel + Aluminum Alloy, Carbon Steel + Cupper Alloys, Carbon Steel + Nickel Alloy. Thickness up to 25 mm	Tensile Strength, (Grip Size : Round 10mm to 25 mm Grip Size: Flat 2 mm to 40 mm)	ASTM A 370
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners Made of Carbon Steel and Alloy Steel	Proof Load Test	IS 1367(Part-6)
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	% of Elongation	IS 1608 part 1
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell hardness Test (Dia 2.5mm ball /187.5 Kgf load)	IS 1500 (Part-1)
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	FlatteningTest	IS 2328
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Impact TestCharpy`V'Room Temperatureto -40 degrees C	IS 1757 Part- 1
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwall Hardness Test HRB	IS 1586 (Part-3)
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwall Hardness Test HRC	IS 1586 (Part-1)
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Strength	IS 1608 Part-I
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test 0.2%proof stress	IS 1608 Part-I,
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield strength	IS 1608 Part-I
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	% of Reduction of Area	ASME SA 370 (Part-A) Sec (II)
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Bend Test	ASME SA 370 (Part-A) Sec (II)

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86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Breaking Load Test	ASME SA 370 (Part-A) Sec (II)
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Impact Test Charpy`V' Room Temperature to -40 degrees C	ASME SA 370 (Part-A) Sec (II)
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Strength, (Grip Size : Round 10mm to 25 mm Grip Size: Flat 2 mm to 40 mm)	ASME SA 370 (Part-A) Sec (II)
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Test 0.2% proof stress	ASME SA 370 (Part-A) Sec (II)
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Yield strength	ASME SA 370 (Part-A) Sec (II)
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Sheet, Pipe & Tube	Tensile Test, (Grip Size : Round 10mm to 25 mm Grip Size: Flat 2 mm to 40 mm)	ASME Sec. (IX)
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Sheet, Pipe & Tube	Root Bend, Face Bend, Side Bend	ASME Sec (IX)
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	wrought and cast aluminum- and magnesium-alloy products	Tensile Test 0.2%proof stress	ASTM B-557
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	wrought and cast aluminum- and magnesium-alloy products	% of Elongation	ASTM B-557
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	wrought and cast aluminum- and magnesium-alloy products	Tensile Strength	ASTM B-557
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	wrought and cast aluminum- and magnesium-alloy products	Yield strength	ASTM B-557